VSR CIVIL INFRA PVT. LTD.
Engineering project Consultants

VSR /BBMP/YNK/W.No.006-001/2020-21 **Date: 19.02.2021**

CERTIFICATE

Division: Projet Yelahanka

Sub Division: Projet Yelahanka

Ward No: 06

Name of Work: Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06

Running Account Bill: 1st and Final Bill

Value of work completed by Contractor Amount: Rs 2,05,98,734.28/-

This is to certify that all the Items of Works have been carried out as per Specifications and Conform to MORTH.

for VSR Civil Infra Pvt. Ltd.

VSR CIVIL INFRA PVT. LTD. BANGALORE

(Authorized Signatory)

Project Management Consultants

#522/B , 6th Main Road, Hanumanthanagar, Bengaluru - 19

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Job No.: VSR/BBMP/SDV/W.No.06/2019-20 Date: 23.10.2020

TEST REPORT

CLIENT	:	**Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.
AGENCY	:	**Sri. S. D Venkatesh Gowda ,**Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.
SAMPLE ID	:	Cement (ACC) OPC 53 Grade
DATE OF MANUFACTURE	:	October-2020
DATE OF TESTING	:	21.10.2020 to 23.10.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	425 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Consultants representative **Contractor representative** **Client Representative**

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Job No: VSR/BBMP/SDV/W.No.06/2019-20

Date : 23.10.2020

TEST REPORT ON FINE AGGREGATES (SAND) - SIEVE ANALYSIS FOR CONCRETE IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of Work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Date of Testing : 23.10.2020

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	58	5.80	5.80	94.2	90-100
2.36	132	13.20	19.00	81.0	75-100
1.18	155	15.50	34.50	65.5	55-90
600 Micron	241	24.10	58.60	41.4	35-59
300 Micron	168	16.80	75.40	24.6	8-30
150 Micron	174	17.40	92.80	7.2	0-10

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Consultants representative **Contractor representative** **Client Representative**

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Job No : VSR/BBMP/SDV/W No.06/2019-20 Date : 23.10.2020

TEST REPORT ON COARSE AGGREGATE - SIEVE ANALYSIS OF INDIVIDUAL & COMBINED GRADATION FOR CONCRETE
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.
Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.
Name of Work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.
Date of Testing : 23.10.2020
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	175	1.17	1.17	98.83	95-100
20	8412	56.08	57.25	42.75	30-70
10	2321	15.47	72.72	27.28	10-35
4.75	3521	23.47	96.19	3.81	0-5

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Job No.: VSR/BBMP/SDV/W.No.06/2019-20 Date : 23.10.2020

TEST REPORT ON COARSE AGGREGATE - SIEVE ANALYSIS OF INDIVIDUAL & COMBINED GRADATION FOR CONCRETE
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.
Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.
Name of Work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.
Date of Testing : 23.10.2020
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	132	2.6	2.6	97.4	95-100
10	2541	50.8	53.5	46.5	25-55
4.75	1965	39.3	92.8	7.2	0-10

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Job No.: VSR/BBMP/SDV/W.No.06/2019-20

Date: 26.10.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Project Division,Yelahanka Zone, BBMP,**
Agency : **Sri. S. D Venkatesh Gowda ,Bangalore.**
Name of Work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.
Sample Identification : 8mm,10mm,12mm & 16mm Fe 550 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 26.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.33	535	544	13.5
2	Fe 500	10	0.65	548	552	14
3	Fe 500	12	0.84	556	567	15

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Consultants representative **Contractor representative** **Client Representative**

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Job No.: VSR/BBMP/SDV/W.No.06/2019-20

Date: 17.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2020	17.11.2020	8.164	352.1	15.65
2	10.11.2020	17.11.2020	8.143	363.8	16.17
3	10.11.2020	17.11.2020	8.175	342.8	15.24

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VISR CIVIL INFRA PVT. LTD. BANGALORE

Consultants **Contractor representative** **Client Representative**

Scanned by TapScanner

Date: 08.12.2020

Job No.: VSR/BBMP/SDV/W.No.06/2019-20

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2020	08.12.2020	8.232	503.2	22.36
2	10.11.2020	08.12.2020	8.214	516.4	22.95
3	10.11.2020	08.12.2020	8.225	523.4	23.26

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Consultants **Contractor representative** **Client Representative**

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Date: 17.11.2020

Job No.: VSR/BBMP/SDV/W.No.06/2019-20

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2020	17.11.2020	8.184	355.6	15.80
2	10.11.2020	17.11.2020	8.192	362.5	16.11
3	10.11.2020	17.11.2020	8.175	341.7	15.19

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Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2020	08.12.2020	8.215	502.3	22.32
2	10.11.2020	08.12.2020	8.232	512.4	22.77
3	10.11.2020	08.12.2020	8.265	523.6	23.27

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Job No: VSR/BBMP/SDV/W No 06/2019-20 Date: 17.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2020	17.11.2020	8.184	352.6	15.67
2	10.11.2020	17.11.2020	8.192	361.4	16.06
3	10.11.2020	17.11.2020	8.165	371.4	16.51

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K.R. CIVIL INFRA PVT. LTD. BANGALORE

Consultants **Contractor representative** **Client Representative**

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Job No: VSR/BBMP/SDV/W.No.06/2019-20 Date: 08.12.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.11.2020	08.12.2020	8.215	503.2	22.36
2	10.11.2020	08.12.2020	8.236	523.6	23.27
3	10.11.2020	08.12.2020	8.241	512.4	22.77

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Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	18.11.2020	8.185	355.6	15.80
2	11.11.2020	18.11.2020	8.163	342.1	15.20
3	11.11.2020	18.11.2020	8.174	362.8	16.12

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Job No.: VSR/BBMP/SDV/W.No.06/2019-20

Date: 09.12.2020

TEST REPORT ON CONCRETE CUBES

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Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	09.12.2020	8.214	512.4	22.77
2	11.11.2020	09.12.2020	8.235	526.3	23.39
3	11.11.2020	09.12.2020	8.261	532.4	23.66

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Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	18.11.2020	8.187	352.6	15.67
2	11.11.2020	18.11.2020	8.163	368.4	16.37
3	11.11.2020	18.11.2020	8.192	348.0	15.47

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Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	09.12.2020	8.215	506.3	22.50
2	11.11.2020	09.12.2020	8.232	526.8	23.41
3	11.11.2020	09.12.2020	8.225	532.4	23.66

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Consultants **Contractor representative** **Client Representative**

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Job No: VSK/BBMP/SEN/W.No.06/2019-20 Date: 18.11.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, Project Division, Yelahanka Zone, BBMP, Bangalore

Agency : Sri. S. D Venkatesh Gowda, Bangalore

Name of the work : Improvements to roads and drains in Hegdenagara Ward 3rd and 4th cross Ward No: 06, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516 1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	18.11.2020	8.184	352.6	15.67
2	11.11.2020	18.11.2020	8.166	361.4	16.06
3	11.11.2020	18.11.2020	8.193	372.5	16.56

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Consultants Contractor representative Client Representative

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Job No: VSR/BBMP/SDV/W No 06/2019-20

Date: 09.12.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.11.2020	09.12.2020	8.215	502.4	22.33
2	11.11.2020	09.12.2020	8.232	516.3	22.95
3	11.11.2020	09.12.2020	8.225	523.8	23.28

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Consultants **Contractor representative** **Client Representative**

Scanned by TapScanner

Job No: VSR/BBMP/SDV/W.No.06/2019-20 Date: 19.11.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.11.2020	19.11.2020	8.163	356.2	15.83
2	12.11.2020	19.11.2020	8.184	362.4	16.11
3	12.11.2020	19.11.2020	8.192	349.6	15.54

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: VSR/BBMP/SDV/W.No.06/2019-20 Date: 10.12.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Division,Yelahanka Zone, BBMP, Bangalore.

Agency : **Sri. S. D Venkatesh Gowda ,**Bangalore.

Name of the work : Improvements to roads and drains in Hegdenagara West 3rd and 4th cross Ward No - 06, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.11.2020	10.12.2020	8.215	506.3	22.50
2	12.11.2020	10.12.2020	8.263	523.4	23.26
3	12.11.2020	10.12.2020	8.254	512.8	22.79

Note:

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